

#4

[illegible]

Group Art Unit: Not yet known

Examiner: Not yet assigned

For: APPARATUS AND METHOD FOR DETERMINING DIELECTRIC PROPERTIES OF AN ELECTRICALLY CONDUCTIVE FLUID

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; and

I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a

☒ Utility Patent ☐ Design Patent

is sought on the invention, whose title appears above, the specification of which:

☐ is attached hereto.

☒ was filed on 24 January 2000 as International Patent Application Serial No. PCT/GB00/00168.

☒ said application having been amended on March 20, 2001.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to the patentability of this application in accordance with 37 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a-d) of any **foreign application(s)** for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of any application on which priority is claimed:

Priority Claimed (If X'd)	Country	Serial Number	Date Filed
<input checked="" type="checkbox"/>	UK	GB 9901304.7	22 January 1999
<input type="checkbox"/>			
<input type="checkbox"/>			
<input type="checkbox"/>			

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Serial Number	Date Filed	Patented/Pending/Abandoned

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

Serial Number	Date Filed

DOCKET NO. : THOM-0016

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

James LUCAS and Ahmed AL-SHAMMAA

Serial No.: 09/889,537

Group Art Unit: not yet known

International Filing Date: 24 January 2000

Examiner: not yet assigned

For: APPARATUS AND METHOD FOR
DETERMINING DIELECTRIC
PROPERTIES OF AN ELECTRICALLY
CONDUCTIVE FLUID

Assistant Commissioner for Patents
Washington DC 20231

Sir:

ASSOCIATE POWER OF ATTORNEY

The undersigned, of the firm WOODCOCK WASHBURN LLP, One Liberty
Place - 46th Floor, Philadelphia, Pennsylvania 19103, Attorney and/or Agents for
Applicant(s), hereby appoints the following:

Richard E. Kurtz	Registration No. <u>19,263</u>	Lynn A. Malinoski	Registration No. <u>38,788</u>
Dale M. Heist	Registration No. <u>28,425</u>	Steven B. Samuels	Registration No. <u>37,711</u>
Gary H. Levin	Registration No. <u>28,734</u>	Anthony J. Rossi	Registration No. <u>24,053</u>
Steven J. Rocci	Registration No. <u>30,489</u>	Terence P. Strobaugh	Registration No. <u>25,460</u>
Dianne B. Elderkin	Registration No. <u>28,598</u>	Michael J. Swope	Registration No. <u>38,041</u>
John P. Donohue, Jr.	Registration No. <u>29,916</u>	Michael J. Bonella	Registration No. <u>41,628</u>
Henrik D. Parker	Registration No. <u>31,863</u>	Harold H. Fullmer	Registration No. <u>42,560</u>
Suzanne E. Miller	Registration No. <u>32,279</u>	John E. McGlynn	Registration No. <u>42,863</u>
Lynn B. Morreale	Registration No. <u>32,842</u>	Jonathan M. Waldman	Registration No. <u>40,861</u>
Mark DeLuca	Registration No. <u>33,229</u>	Paul K. Legaard	Registration No. <u>38,534</u>
Joseph Lucci	Registration No. <u>33,307</u>	Chad Ziegler	Registration No. <u>44,273</u>
Michael P. Dunnam	Registration No. <u>32,611</u>	Gwilym J.O. Attwell	Registration No. <u>45,449</u>
Michael D. Stein	Registration No. <u>34,734</u>	David N. Farsiou	Registration No. <u>44,104</u>
Albert J. Marcellino	Registration No. <u>34,664</u>	Steven H. Meyer	Registration No. <u>37,189</u>
David R. Bailey	Registration No. <u>35,057</u>	Paul B. Milcetic	Registration No. <u>46,261</u>
Doreen Yatko Trujillo	Registration No. <u>35,719</u>	Joseph R. Condo	Registration No. <u>42,431</u>
Barbara L. Mullin	Registration No. <u>38,250</u>	Michael K. Jones	Registration No. <u>41,100</u>
Michael P. Straher	Registration No. <u>38,325</u>	Frank T. Carroll	Registration No. <u>42,392</u>
Kevin M. Flannery	Registration No. <u>35,871</u>	Mark J. Rosen	Registration No. <u>39,822</u>
David A. Cherry	Registration No. <u>35,099</u>	Eric H. Vance	Registration No. <u>47,151</u>
Robert B. Washburn	Registration No. <u>16,574</u>	Peter M. Ullman	Registration No. <u>43,963</u>
Norman L. Norris	Registration No. <u>24,196</u>	Thomas E. Watson	Registration No. <u>43,243</u>

44568360

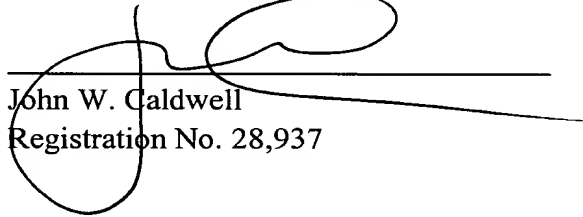
69

Richard B. LeBlanc Registration No. 39,495
Joseph D. Rossi Registration No. 47,038
Rosaleen P. Morris Registration No. 47,321
George J. Awad Registration No. 46,528
Steven D. Maslowski Registration No. 46,905
S. Maurice Valla Registration No. 43,966
Vincent J. Roccia Registration No. 43,887
Robin S. Quartin Registration No. 45,028
Patrick J. Farley Registration No. 42,524
Gregory L. Hillyer Registration No. 44,154
Susan C. Murphy Registration No. 46,221
Raymond N. Scott, Jr. Registration No. P48,666
David L. Marcus Registration No. 46,897
Christine A. Goddard Registration No. 46,731
Ellen M. Klann Registration No. 44,836

Andrew J. Hagerty Registration No. 44,141
Emma R. Dailey Registration No. P48,491
Stephen C. Timmins Registration No. P48,481
Erich M. Falke Registration No. P49,049
Jane Inglese Registration No. P48,444
Janet E. Reed Registration No. 36,252
Scott E. Scioli Registration No. 47,930
Lawrence A. Aaronson Registration No. 38,369
John A. Harrelson Registration No. 42,637
Jeffrey J. King Registration No. 38,515

his/her associates with full power to prosecute the above-identified application and to transact all business in the Patent Office connected therewith and requests that correspondence continue to be directed to the firm of WOODCOCK WASHBURN LLP at the above address.

Date: October 25 2007


John W. Caldwell
Registration No. 28,937

Woodcock Washburn LLP
One Liberty Place - 46th Floor
Philadelphia PA 19103
Telephone: (215) 568-3100
Facsimile: (215) 568-3439


I hereby appoint the following persons of the firm of **WOODCOCK WASHBURN KURTZ MACKIEWICZ & NORRIS LLP**, One Liberty Place - 46th Floor, Philadelphia, Pennsylvania 19103 as attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

John W. Caldwell Reg. No. 28,937


Address all telephone calls and correspondence to:

John W. Caldwell
**WOODCOCK WASHBURN KURTZ
MACKIEWICZ & NORRIS LLP**
One Liberty Place - 46th Floor
Philadelphia PA 19103
Telephone No.: (215) 568-3100
Facsimile No.: (215) 568-3439

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name: <u>James LUCAS</u>	 Signature Date of Signature: <u>20/9/01</u> Citizenship: <u>United Kingdom</u>
Mailing Address: 12 Sunnigdale Drive <u>Blundellsands</u> , Liverpool L23 7XA United Kingdom GBX	
City/State of Actual Residence: Liverpool, United Kingdom	

2-0

Name: <u>Ahmed AL-SHAMMAA</u>	
Mailing Address: University of Liverpool Department of Electrical Engineering & Electronics <u>Brownlow Hill</u> Liverpool L69 3GJ United Kingdom <i>GBX</i>	Signature Date of Signature: <u>20/09/01</u> Citizenship: <u>United Kingdom</u>
City/State of Actual Residence: Liverpool, United Kingdom	

105201 2558860